THE FOLLOWING IS THE ENGLISH TRANSLATION OF THE ARTICLE 34 AMENDED SHEETS (Pages 7 and 8)

We claim:

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- 8. A process for the oligomerization of α -olefins having at least three carbon atoms, in which the olefin is brought into contact with a catalyst system obtainable from
 - a) at least one chromium source,
- 10 b) at least one ligand of the formula I

 $\begin{array}{c|c}
R^{1} & N \\
 & N \\
 & N \\
 & R^{3}
\end{array}$ (I)

where R^1 to R^3 are each, independently of one another, C_4-C_{30} -alkyl which has no α , β or γ branching,

 R^{A} is an organic group having from 1 to 30 carbon atoms which is bound via a silicon atom or a carbon atom, and

25 p is from 0 to 6, and

- c) at least one activator comprising a boron compound, with the molar ratio of B:Cr being at least 5.
- 30 9. A process as claimed in claim 1, wherein the activator further comprises an alkylaluminum compound.
 - 10. A process as claimed in claim 2, wherein the activator comprises a trialkylaluminum and an alkylaluminum halide.

11. A process as claimed in any of the preceding claims, wherein 1,3,5-tri-n-dodecyl-1,3,5-triazacyclohexane is used as ligand.

- **40** 12. A process as claimed in any of the preceding claims, wherein the boron compound has the formula BZ_3 and/or $Cat^{\bigoplus}BZ_4^{\bigoplus}$, where Z is an electron-withdrawing radical and Cat^{\bigoplus} is a cation.
- 13. A process as claimed in claim 5, wherein the boron compound is selected from among trispentafluorophenylborane, N,N-dimethylanilinium tetrakispentafluorophenylborate, tri-n-butylammonium tetrakispentafluorophenylborate,

N,N-dimethylanilinium
tetrakis(3,5-bisperfluoromethylphenyl)borate,
tri-n-butylammonium
tetrakis(3,5-bisperfluoromethylphenyl)borate and tritylium
tetrakispentafluorophenylborate.

14. A process as claimed in any of the preceding claims, wherein 1-butene is used as olefin.